#### U.S. ENVIRONMENTAL PROTECTION AGENCY

# TECHNICAL ENFORCEMENT SUPPORT AT HAZARDOUS WASTE SITES

TES IV
CONTRACT NO. 68-01-7351
EPA WORK ASSIGNMENT NO. R07018
RCRA LAND DISPOSAL RESTRICTIONS INSPECTION
AT
RAY SCHUMANN AND ASSOCIATES, INC.
MOD009738147

JACOBS ENGINEERING GROUP INC. JACOBS WORK ASSIGNMENT NO. 05C01700

**JUNE 30, 1989** 



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#### RCRA LAND DISPOSAL RESTRICTIONS REPORT

#### PREPARED FOR

#### U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII TOXICS AND WASTE MANAGEMENT DIVISION COMPLIANCE RESPONSE BRANCH

Facility: Ray Schumann and Associates, Inc.

1347 January Avenue St. Louis, Missouri

EPA ID Number: MOD 009738147

Date of Inspection: June 8, 1989

Jacobs Representatives: Greg C. Uetrecht, Geological Engineer

Laurie M. Smith, Industrial Hygienist

Facility Representatives: Dennis Schumann, Secretary

James Schumann, Treasurer

Walter Puryear, Environmental Property Associates Incorporated (Consultant)

Report Prepared By: Laurie M. Smith

Report Date: June 30, 1989

# RCRA LAND DISPOSAL RESTRICTIONS INSPECTION RAY SCHUMANN AND ASSOCIATES, INC. ST. LOUIS, MISSOURI REGION VII WORK ASSIGNMENT NO. R07018

#### **ABSTRACT**

| Hazardous | Hazardous         |            |             |
|-----------|-------------------|------------|-------------|
| Waste     | Waste             | Disposal   | Disposal    |
| Code      | Stream            | Facility   | Method      |
| F002/F003 | Perchloroethylene | Rineco     | Reclamation |
|           | n-Butyl Alcohol   | Chemical   |             |
|           |                   | Industries |             |

#### BACKGROUND

#### **Nature and History of Operation**

The Ray Schumann and Associates, Inc. facility is located at 1347 January Avenue, St. Louis, Missouri. The facility is a full quantity generator that is involved in the manufacture of both off-set and flex graphic printing plates. Operations have been maintained at the current facility for approximately six years.

The facility is currently generating one waste stream that is manifested off-site. This waste stream is identified as F002/F003 hazardous waste which consists of n-Butyl alcohol and tetrachloroethylene. This waste is handled by Rineco Chemical Industries of Benton, Arkansas (EPA ID #ARD 981057870). Previous to Rineco Chemical Industries, Clayton Chemical of Sauget, Illinois was used. This waste stream is generated as a result of printing plate (off-set and flex graphic) operations in quantities of approximately one 55-gallon drum per quarter year. Solvents utilized in the printing process are distilled on-site. Waste waters generated as result of on-site processes are discharged to the sewer.

As a result of this Land Disposal Restrictions Inspection, a Notice of Violation (NOV) was issued to the facility citing the following:

40 CFR 268.50 (a)(2)(i) - Each container must be clearly marked to identify its contents of F-solvent waste.

#### **Regulatory History**

Ray Schumann and Associates, Inc. submitted an original Notification of Hazardous Waste Activity on December 3, 1983. The Notification identified the facility as a generator of K030, F003, and U031 wastes. As is explained in a later portion of this report, it was discovered that the facility actually generated only F-listed wastes.

#### **INVESTIGATION**

#### **Record Review**

#### Waste Analysis Plan (WAP)

As required by 40 CFR 268.7, the generator must test his waste or an extract of his waste (using the TCLP), or use knowledge of his waste to determine if the waste is restricted from land disposal. Ray Schumann and Associates, Inc. employs knowledge of process to characterize their waste based on laboratory and supplier data.

#### Manifests/LDR Notifications/Waste Analyses

Generators are required, per 40 CFR 268.7 (a)(1), to notify the treatment facility in writing of the appropriate treatment standards set forth in 40 CFR 268, Subpart D with each shipment of LDR waste. Ray Schumann and Associates, Inc. is currently shipping one waste stream offsite. All shipments are designated for reclamation at Rineco Chemical Industries, ARD 981057870. A copy of the most recent manifest, dated 05/09/89, is enclosed as Attachment 1. As indicated previously in this report, this waste stream consists of still bottom from the recovery of perchloroethylene and n-Butyl alcohol. The accompanying waste profile sheet (Attachment 1) indicates the waste stream includes F002/F003 constituents. Notification statements which included appropriate treatment standards have accompanied shipments offsite as required by 40 CFR 268.7 (a)(1), however copies were not kept at the facility.

#### **Laboratory Analysis**

Ray Schumann and Associates, Inc. employs knowledge of process to characterize and appropriately code their hazardous waste. No laboratory analyses have been performed for verification. The facility has, however, had their waste tested for the following parameters: BTU/lb., Sulfur (%), and Chloride (%). This laboratory test report is included in Attachment 1.

#### **Site Inspection**

On June 8, 1989, a RCRA Compliance Evaluation Inspection (CEI) for the Land Disposal Restrictions (LDR) was performed by Jacobs Engineering Group Inc. (Jacobs) personnel at Ray Schumann and Associates, Inc. This inspection was performed under the Technical Enforcement Support (TES) IV Contract, Work Assignment No. R07018, U.S. Environmental Protection Agency (EPA), Region VII.

The inspection was conducted under authority of Section 3007 of the Resource Conservation and Recovery Act, as amended.

This inspection consisted of a discussion of the facility's RCRA background, a review of the waste management practices, observations made during the investigation, a discussion of investigation and file review findings, and a listing of potential violations. This report is supplemented with photographs to support some of the observations. Documentation requested from Ray Schumann and Associates, Inc. during the investigation and copies of the Land Disposal Restrictions checklist are attachments to this report.

An inspection of the RCRA hazardous waste management practices at the Ray Schumann and Associates, Inc. facility was conducted on June 8, 1989 by Greg C. Uetrecht and Laurie M. Smith of Jacobs Engineering Group Inc. representing EPA, Region VII. Jacobs personnel were met by Mr. Dennis Schumann, Secretary.

Jacobs personnel presented Mr. D. Schumann with an EPA letter of introduction and explained the purpose of the inspection and the procedures that would follow. The Confidential Business Information (CBI) Form was explained to Mr. D. Schumann who did not request confidentiality for Ray Schumann and Associates, Inc. Mr. D. Schumann provided a brief overview of the facility processes. Mr. Walter Puryear of Environmental Property Assessments Incorporated, (consultant to the facility), joined the inspection as Jacobs personnel reviewed the facility's files.

After reviewing Ray Schumann and Associates, Inc.'s records and interviewing Mr. D. Schumann and Mr. Puryear, a determination was made that one RCRA hazardous waste stream is generated at the facility. This waste stream is:

o Still bottoms from the recovery of waste solvents (primarily perchloroethylene and n-Butyl alcohol).

Ray Schumann and Associates, Inc. generates hazardous waste by the process of making printing plates (both off-set and flex graphic). The exposed plate is photomechanically exposed onto the light sensitive photopolymer material and put into a washout processing machine (Cyrel 3040 processor - photograph 1) which contains both perchlorethylene - 75% and n-Butyl alcohol - 25%. The processor rotates for approximately 25 minutes to brush out portions of the negative not exposed to light. Particles brushed out are then put into an X-35 recycling unit (photograph 2) which boils to 250° F. Wastes generated as a result of this process (sludges) are accumulated in nylon bags and put into 55-gallon drums. This waste is manifested off-site as F002 waste. Solvents utilized in the printing process are recycled on-site. Virgin solvent is added as needed.

#### **Drum Accumulation Areas**

The facility had, at the time of inspection, one 55-gallon drum of waste on-site. The hazardous waste label displayed on the drum showed an accumulation date of May 10, 1989. Photograph 3 is of the hazardous waste drum storage area accommodating this drum. The facility shipped approximately one 55-gallon drum of waste sludge for reclaiming per quarter year. The storage area is within the same room as the processor and recycling unit. This area is within the facility building.

#### **ISSUES**

A meeting to out-brief Ray Schumann and Associates, Inc. representatives on the preliminary results of the LDR compliance inspection was held after all information pertinent to the inspection was gathered and examined by the inspectors. The following issues were discussed:

- 1. Ray Schumann and Associates, Inc. generates one RCRA waste stream subject to LDR regulation. This waste has been manifested as F002 waste.
- 2. Each container must be clearly labeled to identify its contents as F002/F003 waste.

#### LISTING OF POTENTIAL VIOLATIONS

Forms A, C, D, and E of the Land Disposal Restriction Checklist were completed and are included as Attachment 3. The potential violations identified from the document review and the site visit are summarized below:

#### 40 CFR 268.50 (a)(2)(i) - Prohibitions on storage of restricted wastes

Each container must be clearly marked to identify its contents of F002/F003 waste.

### 40 CFR 268.7 (a)(1) - Waste Analysis

The generator must notify the treatment facility in writing of the appropriate treatment standards for F002/F003 waste.

### **ATTACHMENTS**

- 1. Ray Schumann and Associates, Inc. Facility Records
- 2. Ray Schumann and Associates, Inc. Photographs
- 3. Land Disposal Restrictions Checklist
- 4. Notice of Violation, Confidential Business Information Form and Receipt for Documents.

# ATTACHMENT 1 RAY SCHUMANN AND ASSOCIATES, INC. FACILITY RECORDS

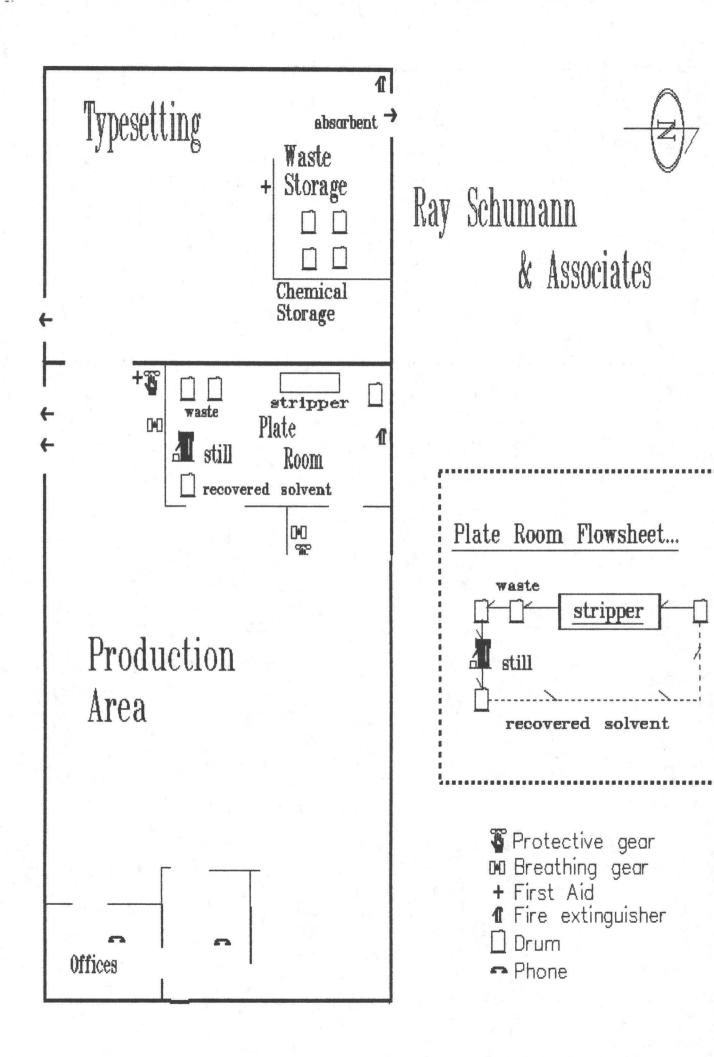
Detailed Description Resource Recovery Process Ray Schumann & Associates, Inc.

Spent solvent, perchloroethylene/alcohol, will be accumulated in a 55 gallon drum immediately adjacent to the plate stripper in the Plate Room (see Attachment). The drum will be checked for volume at the end of each stripping run. As the drum nears capacity, it will be connected to the Recyclene recovery unit described in Attachment. The Recyclene unit will be opened for visual evaluation of the charging chamber to ensure the integrity of the liner and cleanliness of the chamber. If necessary, the chamber will be cleaned with a hand scraper and the liner replaced. All such removals from the chamber will be treated as a hazardous waste and transferred to a 55 gallon drum maintained for storage of still bottoms. After inspection, the Recyclene will be energized. Filling, warm-up and operation are all automatic as described in Attachment.

After the run is completed and the unit has cooled below the lock-out temperature, the chamber will be opened for a final visual evaluation and, if necessary, solids removal. Solids will be transferred to the satellite storage container. When full, the container will be affixed with the required "Hazardous Waste" label and moved to the waste confinement/storage area until disposal arrangements can be made.

Recovered solvent will be collected in a 55 gallon drum adjacent to the Recyclene unit. When full, the drum will be relocated to the intake for the plate stripper or returned to the chemical storage area.

The operator will document each run on a copy of the "Operating Record" form (Attachment ). Only waste generated on-site from the plate stripper will be recovered. Since no other hazardous wastes or solvents are used at the facility, no formal testing protocol is necessary; and the Flowsheet, Detailed Description, and Operating Record comprise the Quality Control Program for this operation.



# PART II

Form H.W.G.-IA HAZARDOUS WASTE REGISTRATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES
P.O. Box 176, Jefferson City, Missouri 65102



MISSOURI GENERATOR I.D. NO. if assigned.

| HAZARDOUS WAS           | TE INFORMATION   | 0.4.2  | 5 5   |
|-------------------------|--|--|---|
|                         |  | ed and shall be  |   |
|                         |  |  |   |
| T                       | e de   |  |   |
| , Inc.                  |  |  |   |
| State _                 | Mo.  | Zip Code _   | 63110   |
| Total W                 | lastes Register  | ed 1   |   |
|                         | * \$1 *0 <b>*</b> \$4.   | And the source of the source o |   |
| (Iden<br>liste<br>4.010 | tification number of wastes are in (5) & (6). Therefore ation C. (6)   | bers for the to<br>n Sections 10 C   | xic and SR 25-  |
| Pounds Co               | ubic Yards   |  |   |
|                         |  |  |   |
| remove to               |  |  |   |
|                         | Print in Black  Print in Black  Total in State  State  Total in State  Total in State  (Identified 4.010)  6. 00  Print in Black  From State  Total in State  Company of State  Example 1.000  Translate  Total in State  Tota | Print in Black Ink or Typewr  , Inc.  State Mo.  Total Wastes Register  CSR 25-4.010)  5. X Listed Waste, I  (Identification num listed wastes are in 4.010 (5) & (6).  6. Other  Pounds Cubic Yards  e: K052 Tank Bottoms (leaded)  ord evomen  | pe of hazardous waste generated and shall be Print in Black Ink or Typewrite)  The .  State Mo. Zip Code  Total Wastes Registered 1  (Identification numbers for the to listed wastes are in Sections 10 Cd. 4.010 (5) & (6).  6. Other  Total Wastes Empty Container (Give number & Cd. 100 (100 (100 (100 (100 (100 (100 (100 |

| Composition: List all the hazardous components all other major components by weig  | of the waste and the concentration. List<br>the percentages.   |
|--|--|
| Major Components (wt.2)  | Extraction Procedure Concentration (ppm)   |
| n Butyl alcohol  | 25%  |
| 2. Perchloroethylene   | 75%  |
| 3. ( )   | TO SERVE SECTION AND AND AND AND AND AND AND AND AND AN  |
|  |  |
|  | E. Schumann & Associates, no   |
| Section of the sectio | SENSVA VIBELIEG FECT   |
| 0,5110   | couls "  |
| <b>7.</b>  |  |
|  |  |
| Section F - Physical Data  | Carry and the Head Control of the  |
| 1. Physical State (Circle One)inkSolid Sludg<br>2. Appearance and Odor:  | e Slurry (Liquid) Compressed gas   |
| 2. Appearance and Odor:X 3. Solubility in water  | * by weight of volatiles at 600°C  |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  8.  | * by weight of volatiles at 600°C Boiling Point (°C)   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> O=1)  5. Vapor density (Air-1)  9.  | % by weight of volatiles at 600°C Boiling Point (°C)   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  | * by weight of volatiles at 600°C Boiling Point (°C)   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  | % by weight of volatiles at 600°C Boiling Point (°C)   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data   | % by weight of volatiles at 600°C **  Boiling Point (°C)  pH   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> O=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data  1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS   | # by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std.; TM std.; D-3278-73   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data  1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS  2. Extinguish Media a [ a) / [ ] dry chemical,   | ## by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std., TM std. D-3278-73  b. // CO2. c. // alcohol foam,                             |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> 0=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data  1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS  2. Extinguish Media a. (11) dry chemical,  | # by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std., TM std., D-3278-73   |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> O=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data  1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS  2. Extinguish Media a [a] / [] dry chemical, d. / water fog,   | ## by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std. TM std. D-3278-73  CO2. c. alcohol foam.                                       |
| 3. Solubility in water 4. Specific gravity (H <sub>2</sub> 0=1) 5. Vapor density (Air-1) 6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data 1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS 2. Extinguish Media a. ( ) dry chemical, d. water fog, f. other, specify   | ## by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std. TM std. D-3278-73  CO2. c. alcohol foam.                                       |
| 2. Appearance and Odor:  3. Solubility in water  4. Specific gravity (H <sub>2</sub> O=1)  5. Vapor density (Air-1)  6. 2 by weight of volatiles at 100°C  Section G - Fire and Explosion Data  1. Flashpoint (circle one, if applicable) - Pen D-93-77 or setaflash closed tester method AS  2. Extinguish Media and fire dry chemical, d. water fog,   | ## by weight of volatiles at 600°C  Boiling Point (°C)  pH  sky - Martens closed cup tester ASTM std. TM std. D-3278-73  b. / CO <sub>2</sub> , c. / alcohol foam, e. / water spray. |

| Section M - Transportation   |                                |
|--|--------------------------------|
| 1. Type of vehicle: a. X Tractor-trailer d. Flatbed  |                                |
| bRoll-off/Lugger e Tank truck  |                                |
| c. Dump truck (with cover) f. Other  |                                |
| 2. Estimated Number of shipments per year  |                                |
| 7 Transporter's name   | 63110                          |
| 4. Address 2101 'Clayton Ave St Louis State  Street 644-1300 City State  | Zip Code                       |
| 5. lelephone number  |                                |
| County   |                                |
| Section N - Disposal or Treatment Method   |                                |
| on-site off-site   | on-site off-site               |
| 1. a. incineration  f. landfarm  |                                |
| b. storage g. waste pile L. waste absorbent and  |                                |
| Wipe up spills with about and hauled by Litemphoombersersers and hauled by Litemphoombersersers and hauled by Litemphoombersers.   |                                |
| d. treatment storage facility themsed treatment .b   |                                |
| The second secon |                                |
| crien information  | maria palagaj                  |
| <ol> <li>Is the generator site classified as a hazardous waste facility in accordance<br/>10 CSR 25-77</li> </ol>  | timeters and the second second |
| sy France (seecific on Face ventilatizeYr sXirator   |                                |
| Disposal or treatment facility: The name of the facility where this waste is be Clayton Chemical Corp.   | eing managed.                  |
| Address # 1 Mobile Sugget Illinois   | (000                           |
| Street Safety Glasses VII)   | ZIPCode                        |
| Section O - Confidentiality  |                                |
| . Please keep the information on this specific waste confidential.   | 7                              |
| west, protective , leves.  Yes X No  |                                |
| . If yes is checked above, a justification for claiming confidentiality mustin accordance with Section 260.430 of the Missouri Hazardous Waste Manageme  |                                |
|  |                                |
| OATE 392-(396 3TAC   |                                |
|  |                                |
| SIGNATURE  | is:                            |

Ladel oterw guober label

|   | CTERIZATION  | DII   | DON'T CODE  |                                     |              |
|---|--|---|---|-------------------------------------|--------------|
| WASTE CHARA   |  | DO  | PONT CODE   |                                     |              |
|   |  |   | NTRACTORF00   |                                     |              |
| LOCATION  |  | EP/   | A CODES   | 2, F003                             |              |
| EPA I.D.#   | 0  | ОТ  | HER CODES   |                                     |              |
| I. NAME OF WASTE SPENT CYRE   | L <sup>®</sup> SOLVENT   |   |   | •                                   |              |
|   | •  |   |   |                                     |              |
| II. COMPOSITION   |  |   |   |                                     | 24.14        |
| A. MAJOR COMPONENTS   | C. ONE TIME OR TYPICAL ANALYSIS  | D. CONCENTRA  | LOWER   | E. EXPOSURE LI                      | MITS<br>FOSH |
| . Perchloroethylene   | 72%  | 73  | 71  | 100 ppm                             | -,           |
| N-Butanol   | 24%  | 25  | 24  | 100 ppm                             | 1            |
| 3. Synthetic Rubber   | 3%   | 4   | 2   |                                     |              |
| Methacrylates/Acrylates   |  |   |   | Sk.                                 |              |
| 5 Organic Fillers   | < 1%   |   |   |                                     | 1 3 1        |
| n <u>0 . 143</u>  | r<0.1 N° 85  | .l P* < 0.  | 15 FI*  | 15 r <u> </u>                       |              |
| /. PHYSICAL STATE @ 25°C (CIRCLE): OTHER  |  |   |   | OLID PHASES                         | GAS          |
| OTHER  SOLIDS : IS THERE A  LIQUIDS : MULTIPLE A  LIQUIDS & SLUDGES : CAN THE W  LIQUID/SOLID PHASES : % FREE FL  | A DUSTING HAZARD IF COMPHASES? No  | NTAINERS ARE OPEI   | NED?<br>PEACH PHASE POURED?   |                                     |              |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE A LIQUID'S & SLUDGES : CAN THE W LIQUID'S OLID PHASES : % FREE FL   | A DUSTING HAZARD IF COMPHASES? No  | NTAINERS ARE OPEI   | NED?<br>PEACH PHASE POURED?   |                                     |              |
| OTHER  SOLIDS : IS THERE A  LIQUIDS : MULTIPLE A  LIQUIDS & SLUDGES : CAN THE W  LIQUID/SOLID PHASES : % FREE FL  GASES : PRESSURE  CONTAINMENT (CIRCLE)                                | A DUSTING HAZARD IF COMPHASES? No SASTE BE PUMPED? Yes. OWING LIQUID LAYER SE OF CONTAINER   | VI. PROPERTIES (C   | NED?POURED?   |                                     | ME %)        |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE) BULK                               | A DUSTING HAZARD IF COMPHASES?No   | VIAINERS ARE OPEI VIA PROPERTIES (COMBUSTIBLE)                                  | NED?<br>POURED?<br>POURED?<br>SIRCLE)<br>D(FP120_*F)                        |                                     | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE) BULK : 55-GAL. STEEL DRUMS (DOT    | A DUSTING HAZARD IF COMPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  | NED?POURED?  POURED?  RCLE)  (FP120_*F)  (CLOSED CUP                        | GNITABLE (FP) (CLOSED               | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE) BULK : 55-GAL STEEL DRUMS (DOT     | A DUSTING HAZARD IF COMPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  | NED?<br>POURED?<br>POURED?<br>SIRCLE)<br>O(FP120_*F)<br>(CLOSED CUP         | GNITABLE (FP) (CLOSED               | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE A LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE)  BULK :                            | A DUSTING HAZARD IF COMPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE PH 5-6                                  | NED?POURED?  POURED?  POURED?  POURED?  POURED?  POURED?  POURED?           | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE)  BULK                              | A DUSTING HAZARD IF COPPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE  pH5_6_  Btu/LBN/A                      | NED?POURED?  POURED?  POURED?  CICLE  (CLOSED CUP  OSH/  ODOR (YE  COLOR I  | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE) BULK                               | A DUSTING HAZARD IF COMPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE PH 5.6 Btu/LB. N/A REACTIVE NO.         | NED?POURED?  POURED?  POURED?  POURED?  CLOSED CUP  OSH/  COLOR YE  COLOR I | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %) PSIG   |
| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE)  BULK                              | A DUSTING HAZARD IF COPPHASES?No   | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE PH5_6_ Btu/LBN/A REACTIVENO.            | NED?POURED?  POURED?  POURED?  (CLOSED CUP  OSH/  ODOR (YE  COLOR _I        | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %) PSIG   |
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| OTHER  SOLIDS : IS THERE A  LIQUIDS : MULTIPLE F  LIQUIDS & SLUDGES : CAN THE W  LIQUID/SOLID PHASES : % FREE FL  GASES : PRESSURE  CONTAINMENT (CIRCLE)  BULK  55-GAL STEEL DRUMS (DOT | A DUSTING HAZARD IF COMPHASES? No PHASES? NO PHASES. NO | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE  pH5_6  Btu/LB. N/A  REACTIVENO.  OTHER | NED?POURED?  POURED?  POURED?  (CLOSED CUP  OSH/  ODOR (YE  COLOR _I        | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %) PSIG   |
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| OTHER  SOLIDS : IS THERE A LIQUIDS : MULTIPLE F LIQUIDS & SLUDGES : CAN THE W LIQUID/SOLID PHASES : % FREE FL GASES : PRESSURE  CONTAINMENT (CIRCLE) BULK                               | A DUSTING HAZARD IF COMPHASES? No MASTE BE PUMPED? Yes OWING LIQUID LAYER LEOF CONTAINER LEOF LIQUID LAYER LEOF COMBUSTIBLE LIQUID LIQUID LIQUID LAYER LEOF LIQUID LAYER LEOF LIQUID LAYER LEOF LEOF LEOF LEOF LEOF LEOF LIQUID LI | VI. PROPERTIES (COMBUSTIBLE)  CORROSIVE  pH5_6  Btu/LB. N/A  REACTIVENO.  OTHER | NED?POURED?  POURED?  RCLE)  (CLOSED CUP  OSH/  ODOR YE  COLOR I            | IGNITABLE (FP) (CLOSED A CARCINOGEN | ME %<br>PSIG |



February 23, 1984

MISSOURI DEPARTMENT OF NATURAL RESOURCES P.O. Box 1368 1915 Southridge Drive Jefferson City, Missouri 65102 (314) 751-3241

Mr. James Schumann Ray Schumann & Associates Inc. 1347 January Avenue St. Louis, MO 63110

Dear Mr. Schumann:

Enclosed are the hazardous waste registration forms for the state of Missouri. As soon as the two forms are completed and returned to this agency, your company will be issued its Missouri and Federal Environmental Protection Agency I.D. numbers.

If you have any questions, please contact this office at (314) 751-3241.

Sincerely,

Kenneth Purvis, Jr.

Environmental Specialist Planning & Management Section

Kenneth Purvis J.

Waste Management Program

KP:mlm

Enclosures

RAY SCHUMANN & ASSOC., INC. 1347 JANUARY AVE.

ST. LOUIS

: MO

: 63110

: JAMES SCHUMANN

enerator USEPA I.D.#: MOD0009738147 Phone: 314-645-8700 IL #: 9291895224

CLAYTON CHEMICAL COMPANY has receipt of the following shipments of anifested material from your company. Please contact us of any discrepancy. hank you for your support and the use of our service!:

| Manifest # | & Class | DOT code | : Waste#: | Gallons: | Density: | Handl | e: Date: |
|------------|---------|----------|-----------|----------|----------|-------|----------|
| 123312     | C       | 1.5      | FØØ2      | 660      | 10.0     | SØ1   | 85/05/30 |
| 1123313    | C       | 15       | FØØ2      | 265      | 10.0     | 501   | 85/09/04 |
| 1123314    | C       | 15       | FØØ2      | 275      | 10.0     | SØ1   | 85/12/04 |



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII 726 MINNESOTA AVENUE KANSAS CITY, KANSAS 66101

#### **CERTIFIED MAIL**

#### RETURN RECEIPT REQUESTED

Mr. James Schumann Ray Schumann & Associates Inc. 1347 January Avenue St. Louis, MO 63110

RE: Request for Information

Ray Schumann & Associates Inc. St. Louis MOD980852735

### **REQUEST FOR INFORMATION**

Dear Mr. Schumann:

Under Section 3007 of the Resource Conservation and Recovery Act (RCRA), Title 42 U.S.C. Section 6927, the Environmental Protection Agency (EPA) may require you to furnish information relating to your wastes and waste management practices. Pursuant to Section 3007 of RCRA, for the purposes of determining compliance and possible enforcement, EPA hereby requires that you respond to the following questions in writing within fifteen (15) days of receipt of this letter.

Sections 3004 (d) through (k) and (m) and Section 3005 (j) of RCRA, 42 U.S.C. Section 6924 (d) through (k) and (m) and Section 6925 (j), require the EPA to ban, subject to limitations, or restrict the land disposal of hazardous waste. Prohibitions and restrictions on the management of wastes containing specified solvents became effective on November 7, 1986 (51 Federal Register pg. 40636; November 7, 1987). These prohibitions and restrictions are set forth in 40 CFR Part 268 and in revisions to 40 CFR 260 through 265 and 270.

Your facility has notified the EPA pursuant to the requirements of RCRA that you facility manages hazardous waste as either a generator, transporter, and/or treatment, storage, and disposal facility. These wastes are potentially affected by the new land ban regulations.

#### **Definitions**

"You" or "your" refers to your facility, including its officers, employees, and consultants.

A solvent is defined as a substance used to solubilize (dissolve) or mobilize other constituents. A solvent is considered "spent" when it has been used and is no longer fit for use without being regenerated, reclaimed, or otherwise reprocessed. Examples of spent solvents include solvents that are being used as degreasers, cleaners, fabric scourers, diluents, extractants, and reaction and synthesis media. Manufacturing process wastes containing solvents are not spent solvents.

The definitions in RCRA and the RCRA regulations, 40 CFR Parts 260-271 apply.

#### Information Requested

- 1. The name of the person with your facility to contact regarding this request, including title, address, and telephone number.
- 2. State whether at any time after November 7, 1986, you generated, transported, treated, stored, and/or disposed of 1) F001, F002, F003, F004, and/or F005 wastes as defined at 40 CFR Part 261.31, and/or 2) D001 wastes as defined at 40 CFR 261.21, and/or 3) a mixture of any of the aforementioned wastes. If you are unable, based upon information immediately available to you, to determine the designation of your waste, provide information concerning solvent type wastes that you have generated or handled. Examples of solvent type wastes are given in the definitions section of this letter.
- 3. For each waste identified above, give the rate of generation in pounds per month (lbs./month).
- 4. For each waste identified above, please provide all chemical analyses, Material Safety Data Sheets, manufacturers information, and any other information used to characterize the waste.
- 5. For each waste identified above, provide a brief description of the generation, transportation, treatment, storage and/or disposal process(es).
- 6. For each waste identified above, provide information concerning how the waste was managed from the time the waste was generated or came into your possession up to its final disposition or the time the waste left your possession. This should include copies of all manifests, treatment standard notifications and certifications, servicing agreements, bills of lading, and invoices.

You may, if you desire, assert a business confidentiality claim covering part or all of the information submitted to, or reviewed by, EPA. Such a claim may be made by placing on (or attaching to) the information, at the time of its submittal to, or review by, EPA, a cover sheet, stamped or printed legend, or other suitable form of notice employing language such as "trade secret," "proprietary," or "company confidential." Allegedly confidential portions of otherwise non-confidential documents should be clearly identified and may be submitted separately to facilitate identification and handling by EPA. If confidential treatment is sought only until a certain date or until the occurrence of a certain event, the request should so state.

Information submitted for which a claim of confidentiality is made will be disclosed by EPA only to the extent and by the means authorized by the procedures specified in 40 CFR Part 2, Subpart B (1985), as amended by 50 Federal Register 51654 December 18, 1985. If no such claim is made when information is received by EPA, the information may be made available to the public without further notice.

Please note that you are required to submit this information within fifteen (15) days of receipt of this letter. The response must be submitted to Jacobs Engineering Group Inc., a designated contractor to the EPA. Specifically, you should submit your response to:

Jacobs Engineering Group Inc. Attn: Terry Hagen 8207 Melrose Drive, Suite 114 Lenexa, KS 66214

Should you require a longer period to respond to the information request, you may be granted, by EPA, a one-time extension of 15 days. To request an extension you must contact your EPA RCRA State Coordinator, Marc Rivas, at 913/236-2891.

Failure to respond to these questions within 15 days of receipt of this letter may subject you to an enforcement action under Section 3008 of RCRA, 42 U.S.C. Section 6928. Such enforcement action may include the assessment of penalties of up to \$25,000 for each day of noncompliance.

Should you have any questions concerning this matter, please contact Terry Hagen or Carla Rellergert at 913/492-9218.

Sincerely yours,

Coul & Blomyrac David A. Wagoner

Director

Waste Management Division



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

October 21, 1987

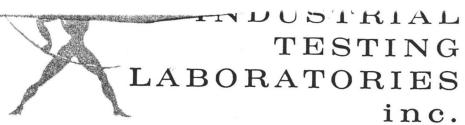
Jacobs Engineering Group Inc. Attn.: Terry Hagen 3207 Melrose Drive, Suite 114 Lenexa, KS 66214

#### Gentlemen:

This letter is in reference to your request for information under Section 3007 of the Resource Conservation and Recovery Act (RCRA), Title 42 U.S.C. Section 6927:

The following are herein provided per your request:

- (1) James A. Schumann
  Ray Schumann & Associates, Inc.
  1347 January Avenue
  St. Louis, MO 63110
  (314) 645-8700
- (2) We have disposed, generated and stored of wastes F001 and or F005 after November 7, 1986.
- (3) F001 and or Foo5 the generation rate in pounds per month: approximately 2,090 lbs.
- (4) Material Safety Data Sheets and manufacturers information are enclosed
- (5) The waste is generated by the process of making photopolymer printing plates. The exposed plate (photomechanically exposed onto the light sensitive photopolymer material) and put into a washout processing machine which contains the mixture of perchloroethylene 75% and 1-Butanol(Butyl Alcohol) 25%. After the plate is washed out any spent solution is automatically deposited into the spent solution drum. This drum holds 55 gallons of the spent solution. When the drum is full, it is placed into a holding the holding has a berm all around and will collect any of the waste material should there be a leak. The initial drum that is connected to the machine and the filled drums of spent solution are visually checked 3 times a day and noted on a specific chart. These drums are then held in our holding area up to 90 days, whereby there comes the transportation phase of the operation.
- (6) After the waste is generated, the filled drums are stored in a holding area specifically designed to hold the waste material. This holding as a berm all around and it will hold all of the contents of any leakage. That should occur. This is visually checked 3 times a day and duly noted on our inspection chart. I have enclosed all manifests and certifications concerning these waste disposal arrangements. After the material is sent out for reclamation, we buy back new reclaimed solvent for our operation.



2350 Seventh Blvd.

St. Louis, Missouri 63104

Chemists

Engineers

Metallurgists

314/771-7111

Report No. 89-02-1116

February 23, 1989

Examination of one (1) sample submitted on 2/10/89.

Environmental Property Assessments, Inc.

P. O. Box 799

Maryville, IL 62062

Attn: Mr. Walter Puryear

#### TEST REPORT

BTU/1b.

17,359

Sulfur, %

<0.01

Chloride, %

7.81

Respectfully submitted,

Allan M. Siegel, P.E.

Director

Invoice #27464

Lab No. 138603 L.B. 31943 BB/bjk



Department of Pollution Control and Ecology P. O. Box 9583 Little Rock, Arkansas 72219 Telephone 501-662-7444

| Ple    | ase print or type. (Form designed for use on elite (12-pitch) typewriter.)  |                    | Form A         | Approved.             | OMB N                   | o. 2050               | -0039. Expires 9-30-88   |
|--------|---|--------------------|----------------|-----------------------|-------------------------|-----------------------|--|
| Ā      |   | milest<br>ment No. | 2. Pag         |                       | nformation<br>equired l | on in the<br>by Feder | shaded areas is not al law.  |
|        | 2 Consisted Name and Malling Address  |                    |                | e Manifest D          | ocument                 | Number<br>7           | kar As   |
|        | RAY Schumany + ASSUCIATES, INC. 1347 JANUARY AUE 57. LOUIS, MO 63110 (245-8700)   |                    | B. State       | Generator             | 19.81                   | BINI                  | C.F.   |
|        | 4. Generator's Phone ( 379)   |                    | NA ACCOUNT.    | #N/I                  | 944                     | inc.                  | SNA H  |
| -      | 5. Transporter 1 Company Name 6. US EPA ID Numbe  TRANSTRUCIC   IL  U  0  9  3  7  4  6  0  |                    | D. Lyan        | sporter's Ph          | one (C                  | PC                    | -966 H 281   |
|        | 7. Transporter 2 Company Name 8. US EPA ID Number   | 1                  | E/ State       | Transporte            | de ID                   | PC                    | H THE  |
|        |   | 11                 | 5 Tran         | sporter's Pho         | one Site                | H. W. A. S.           | KINGSON ATTENDATION OF THE STATE OF THE STAT |
| 1      | 9. Designated Facility Name and Site Address 10. US EPA ID Number Rineco Chemical Industries  | ,                  | N/A            |                       |                         |                       |  |
| 1      | 1007  | 2 7 0              | 1509           | lity's Phone          | 089                     | Me an                 | An Co  |
| 1      | Benton, AR 72015 ARD 9810578  | 12. Conta          | iners          | 13.                   | STATE OF                | 14                    | Alleran  |
|        | 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  | No.                | Туре           | Tota<br>Quant         |                         | Unit<br>Wt/Vol        | I.<br>Waste No.  |
| Ġ      | * HAZARDOUS WASTE SOLIP, N.O.S.   |                    |                |                       |                         |                       | mater local si-  |
| N<br>E |   | 31013              | Om             | 0/10                  | 000                     | 7                     | F002   |
| R<br>A | b.  |                    |                | -11                   |                         |                       |  |
| 0      |   |                    | ١. ا           |                       |                         |                       |  |
| R      | c.  |                    | Н              |                       |                         |                       | TAY TO SEE   |
|        |   |                    |                |                       |                         |                       | ).<br>). (7)   |
|        | d.  | علل                | HH             |                       | 593                     |                       |  |
|        |   |                    |                |                       |                         |                       |  |
|        | Additional Descriptions to Materials Listed Above   |                    | KaHane         | lling Godes           | or Waste                | s Listed              | Above  |
|        | CANAL DESCRIPTION OF THE STATE |                    | EMER           | GENCY RE              | SPONS                   | EINFO                 | RMATION:   |
|        |   |                    | 45 TO 45 BM 15 | <b>地名の大学の大学の大学の大学</b> | 100                     | -                     | 5 chummy<br>14) 842-617  |
| 1      | if no alternate TSDF, return to generator   |                    | 中級             | S.P.H.                | Ser.                    | U) S                  | No.  |
|        | 15. Special Handling Instructions and Additional Information  MO. If W Duc # 0 4253 - 0/4   |                    |                |                       |                         |                       |  |
|        |   |                    |                |                       |                         |                       |  |
|        | THO THIS ONLESS   | 1                  |                |                       |                         |                       |  |
|        | 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accur packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to appli  |                    |                |                       |                         |                       |  |
|        | sas state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste ticable and that I have selected the practicable method of treatment, storage, or disposal currently available to me   | generated          | to the de      | egree I have          | determin                | ed to be              | economically prac-   |
|        | the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste available to me and that I can afford.  | generation         | and sel        | ect the best          | waste n                 | nanagen               | nent method that is  |
|        | Printed/Typed Name Signature  | 7                  |                |                       |                         |                       | onth Day Year  |
| 4      | JAMES A. Schumpan Palk  |                    |                |                       | 4                       |                       | 05019189   |
| R      | 17. Transporter 1 Acknowledgement of Receipt of Materials  Pripted/Typed Name Signature   | <del></del>        | (1             |                       |                         | М                     | onth Day Year  |
| S      | FARL ANDERSON Earl  | (P2                | de             | mo:                   | ^                       |                       | ाडा ७।५१५१५  |
| R      | 18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name Signature   |                    |                |                       |                         | М                     | onth Day Year  |
| Ē      |   |                    |                |                       |                         |                       |  |
| 1      | 19. Discrepancy Indication Space  | The second second  |                |                       |                         |                       |  |
|        |   |                    |                |                       |                         |                       |  |
|        |   | 1                  |                | ,                     |                         |                       | 5.   |
|        | 20. Facility Owner or Operator: Certification of receipt of hazardous materials opvered by this manifest except as not Printed/Typed Name  Signature  Signature   |                    |                |                       |                         | Мо                    | onth Day Year  |
|        | BRIDE WHERS P BALONG  | JU C               | )ons           |                       |                         |                       | 15101,1812   |

EPA Form 8700-22 (Rev. 9-86) Previous edition is obsolete.

NOTICE: THE ORIGINAL AND NOT LESS THAN 1WO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT. ONCE DELIVERED, THE TREAT-MENT/STORAGE/DISPOSAL FACILITY MUST RETURN THIS ORIGINAL COPY TO THE GENERATOR.

# GENERATOR NOTIFICATION TO TREATMENT FACILITY WHERE RESTRICTED WASTE REQUIRES TREATMENT PRIOR TO LAND DISPOSAL

Generator: RAY Schumans - ASSOCIATES, INC.

This Notification is submitted to RINECO CHEMICAL INO, in accordance with regulations effective November 8, 1986 to be promulgated at 40 CFR Section 268.7(a)(1). 40 CFR Section 268.7(a) requires the generator to test his waste or an extract developed using the Toxicity Characteristic Leaching Procedure (TCLP) described in Appendix I of Part 268 51 Fed. Reg. 40,643, or using knowledge of the waste to determine if the waste is restricted from land disposal.

EPA Hazardous Waste No. F001, F002, F003, F004, and F005 are "restricted wastes" and banned from land disposal effective November 8, 1986, unless one or more of the following conditions apply: (1) the generator of the solvent waste is a small quantity generator, (2) the solvent waste is generated from response action taken under CERCLA or corrective action taken under RCRA, or (3) the solvent waste is a solvent-water mixture, solvent-containing sludge or solvent-contaminated soil (non-CERCLA or RCRA corrective action) containing less than 1% (10,000 ppm) total F001-F005 solvent constituents listed in Table CCWE of Section 268.41. (This Table is reprinted on the reverse side).

If a generator determines he is managing a restricted waste and the waste requires treatment prior to land disposal, for each shipment of such waste, the generator must notify the treatment facility in writing of the appropriate treatment standard. This notification must include the information to be provided below.

- 1. EPA Hazardous Waste Number F-002
- Corresponding Treatment Standard (see REVERSE SIDE)
- 3. Manifest Number associated with this shipment of waste AR 384617
- 4. Waste analysis data, when available (please attach)

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

PLEASE BE SURE TO CHECK THE APPROPRIATE BOX(ES) ON THE REVERSE SIDE BEFORE SIGNING)

Signed (authorized representative of generator) Tit

Dato

Note: A copy of this Notice must accompany each manifested load as required by 40 CFR 268.7(a)(1).

instructions: For each solvent waste constituent present in your waste shipment, check the appropriate box in front of the applicable treatment standard(s). If based upon best knowledge and information, your waste shipment may contain some or all of the solvent constituents listed below, please mark the appropriate box(es) or the box labeled "All of the above" at the bottom.\*

|   | Treatment   | Standard (mg/)   |
|---|-------------|------------------|
| Solvent Constituent                               | Wastewaters | All Other Wastes |
| Acetone   | 0.05        | /0.59            |
| n-Butyl alcohol                                   | 5.0         | 1/ 5.0           |
| Carbon disulfide                                  | 1.05        | 4.81             |
| Carbon tetrachloride                              | 0.05        | 0.96             |
| Chlorobenzene                                     | 0.15        | 0.05             |
| Cresols   | 2.82        | 0.75             |
| Cresylic acid                                     | 2.82        | 0.75             |
| Cyclohexanone                                     | 0.125       | 0.75             |
| 1,2-Dichlorobenzene                               | 0.65        | 0.125            |
| Ethyl acetate                                     | .0.05       | 0.75             |
| Ethyl bénzene                                     | 0.05        | 0.053            |
| Ethyl ether                                       | 0.05        | 0.75             |
| Isobutanol  | 5.0         | 5.0              |
| Methanol  | 0.25        | 0.75             |
| Methylene chloride                                | 0.20        | 0.96             |
| Methylene chloride (from pharmaceutical industry) | 12.7        | 0.96             |
| Methyl ethyl ketone                               | 0.05 .      | 0.75             |
| Methyl isobutyl ketone                            | 0.05        | 0.33             |
| Nitrobenzene                                      | 0.66        | 0.125            |
| Pyrdine   | 1.12        | 0.33             |
| Tetrachloroethylene                               | 0.079       | V 0.05           |
| Toluene   | 1.12        | 0.33             |
| 1,1,1-Trichloroethane                             | 1.05        | 0.41             |
| 1,2,2-Trichloro-<br>trifluoroethane               | 1.05        | 0.96             |
| Trichloroethylene                                 | 0.062       | 0.091            |
| Trichlorofluoromethane.                           | 0.05        | 0.96             |
| Xylene  | 0.05        | 0.15             |
| All of the above*                                 |             |                  |

<sup>\*</sup> Please note that where a generator's determination of the appropriate treatment standard is based upon his knowledge of the waste, the generator must maintain in his operating record all supporting data used to



# RINECO CHEMICAL INDUSTRIES

1,007 Vulcan Road - Haskell, P.O. Box 729, Benton, AR 72015 Phone (501) 778-9089 Fax (501) 778-8505

Rineco Chemical Industries is in the business of handling your waste problems. As a permitted Treatment, Storage, and Disposal Facility, we are set up to handle most flammable and chlorinated waste streams. With the expertise in chemical engineering and experienced personnel, Rineco Chemical Industries can process the most difficult flammable waste streams efficiently.

### <u>Services</u>

\* Disposal -- D001, D002, D004, D005, D006 D007, D008, D009, D010, D011, F001, F002, F003, F005 Solids, Sludges, and Liquids

Destruction By Cement Kiln Firing
-- Organics And Inorganics
-- No Ash

Bulk And Drums

- \* Reclaimation Of Solvents
  -- Custom Recycling
- \* Analytical Services

Waste Profiling

Assistance in Waste Classification for Manifesting and Container Selection

At Rineco Chemical Industries, we take great pride in servicing our customers' needs and giving them the comforting assurance that their waste has been disposed of properly.



# RINECO CHEMICAL INDUSTRIES

1007 Vulcan Road - Haskell, P.O. Box 729, Benton, AR 72015 Phone (501) 778-9089 Fax (501) 778-8505

Rineco Chemical Industries is a fully permitted Waste Disposal Facility utilizing the latest technology approved by the Federal Environmental Protection Agency for disposal of most flammable and chlorinated waste materials.

The technology employed in our processing of waste materials involves blending of the wastes into a fuel which is then used in the manufacturing process for Portland Cement. This results in total destruction of the waste.

The attached pamphlet gives a more detailed listing of services and types of waste we are permitted to process. You will find that our capabilities are much greater than many other disposal facilities as our processing also accommodates the more difficult sludges and solids.

From a liability standpoint, by utilizing our facility, you as a generator have reduced your liability for the waste material to the maximum extent. Drums used to ship your waste are rendered RCRA empty, crushed, shredded and processed through steel mills for recovery of the metal.

Rineco Chemical Industries services also include reclamation of solvents, distillation, and full analytical capabilities.

Whether you have one drum or many, you will find our pricing is very competitive with most other disposal options. Development of a price quote for your specific waste streams requires little effort on your part.

The Midwest office of Rineco Chemical Industries would welcome the opportunity to further discuss how our services can satisfy your waste disposal needs. Contact us at (618) 286-3191.

# ATTACHMENT 2 RAY SCHUMANN AND ASSOCIATES, INC. PHOTOGRAPHS

#### **ATTACHMENT 2**

### **PHOTOGRAPHS**

**Location:** 

Ray Schumann and Associates, Inc.

Date:

June 8, 1989

Photographer:

Greg C. Uetrecht, JEG Inspector

Film:

Kodak ASA 200

Camera:

Nikon

Jacobs File:

05C01700

Witness:

Laurie M. Smith, JEG Inspector



# RAY SCHUMANN AND ASSOCIATES, INC.

## PHOTOGRAPH 1

OFFICIAL PHOTOGRAPH JACOBS ENGINEERING GROUP INC.

Subject: Time:

**Cyrel 3040 Processor** 

2:



# RAY SCHUMANN AND ASSOCIATES, INC.

## PHOTOGRAPH 2

OFFICIAL PHOTOGRAPH JACOBS ENGINEERING GROUP INC.

Subject: Time: X-35 Recycler



RAY SCHUMANN AND ASSOCIATES, INC.

# PHOTOGRAPH 3

OFFICIAL PHOTOGRAPH JACOBS ENGINEERING GROUP INC.

Subject: Time

Hazardous Waste drum storage area

# ATTACHMENT 3 LAND DISPOSAL RESTRICTIONS CHECKLIST

Facility Name: Ray Schumann EPA Id Number: MoDoog738147

#### LAND DISPOSAL RESTRICTION CHECKLIST FOR FY 1989

#### Form A - Restricted Waste Determination

Note: This form must be completed during all RCRA Compliance Evaluation Inspections (CEIs). Additional forms (B through F) may be required depending on types of wastes generated or handled.

| Section I. Wastes restricted on November 7, 1986 (F-solvents and Dioxins)  |
|--|
| Check each box that applies (see Appendix A): Fare Small Quanity Generator   |
| F001 F004 F021 F026  |
| F <sub>002</sub> F <sub>005</sub> F <sub>022</sub> F <sub>027</sub>  |
| F0031 F020 F023 F028   |
| * Hacility coes not think this applies, however it may be  |
| None of the wastes listed above are handled by the generator. Of the n-butan   |
| One or more of the wastes listed above are handled by the generator.  Complete Form C - Manifesting Restricted Wastes and Form D - Testing and Management of F-solvents and Dioxins. |
| 1 Applicable only if waste is ignitable.   |
|  |
| Section II. Wastes restricted on July 8, 1987 (California List)  |
| Check each box that applies:   |
| /  |
| Liquid hazardous wastes or liquids associated with solids or sludges containing free cyanides at concentration greater than 1000 mg/L.   |
| Liquid hazardous wastes or liquids associated with solids or sludges containing one or more of the following concentrations:   |
| Arsenic or compounds containing arsenic greater than 500 mg/L;   |
| Cadmium or compounds containing cadmium greater than 100 mg/L;   |
|  |

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|                              |  | Facility Name: _<br>EPA Id Number: _       | Ray Schumana<br>Mb b 00 9 738 147               |
|------------------------------|--|--|---|
| No                           | Form A - Restricted Waste  | Determination (co                          | nt'd)   |
| P                            | Chromium or compounds containi   | ng chromium great                          | er than 500 mg/L;                               |
| H                            | Lead or compounds containing le  | ead greater than                           | 500 mg/L;                                       |
|                              | Mercury or compounds containing  | g mercury greater                          | than 20 mg/L;                                   |
| H                            | Nickel or compounds containing   | nickel greater t                           | nan 134 mg/L;                                   |
| Ħ                            | Selenium or compounds containing   | ng selenium great                          | er than 100 mg/L; or                            |
| 4                            | Thallium or compounds containing   | ng Thallium great                          | er than 130 mg/L.                               |
| Liqu                         | id hazardous wastes exhibiting a   | a pH less than or                          | equal to 2.0.                                   |
|                              | id hazardous wastes that also co<br>s) at concentrations between 50  |  | nated biphenols                                 |
| Comp                         | id or nonliquid hazardous waste<br>ounds at concentrations greater   | containing halogo<br>than or equal to      | enated organic from Foo 2                       |
|                              | of the wastes listed above are<br>lete Section III of this form.   | handled by the g                           | enerator.                                       |
|                              |  |  |   |
| Comp                         | or more of the wastes listed abo<br>lete Form C - Manifesting Restr<br>Management of California List Wa                                    | icted Wastes and I                         |   |
| Comp<br>and                  | lete Form C - Manifesting Restr<br>Management of California List Wa  | icted Wastes and i                         | Form E - Testing                                |
| Comp<br>and<br>Section I     | lete Form C - Manifesting Restri<br>Management of California List Wa<br>II. Wastes restricted on August                                    | icted Wastes and i                         | Form E - Testing                                |
| Section I                    | lete Form C - Manifesting Restricted Management of California List Wastes  II. Wastes restricted on August  Tammer Wastes (see Appendix B) | icted Wastes and i                         | Form E - Testing                                |
| Section I                    | lete Form C - Manifesting Restri<br>Management of California List Wa<br>II. Wastes restricted on August                                    | icted Wastes and i                         | Form E - Testing                                |
| Section I  1. Hard H  B. All | lete Form C - Manifesting Restricted Management of California List Wastes  II. Wastes restricted on August  Tammer Wastes (see Appendix B) | icted Wastes and i                         | Form E - Testing                                |
| Section I  1. Hard H  B. All | Management of California List Wastes restricted on August  ammer Wastes (see Appendix B)  others   | sted Wastes and instes.  8, 1988 (First Ti | Form E - Testing                                |
| Section I  1. Hard H  B. All | Management of California List Walls Wastes restricted on August Cammer Wastes (see Appendix B)  others  K001                               | 8, 1988 (First The Koo41                   | Form E - Testing  hird List)  K008 <sup>1</sup> |

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| Facility Name: | Ray Ichumana |
|----------------|--------------|
| EPA Id Number: | MOD009738147 |

| 1  |                   | Form A | - Restric         | ted | Waste | Determi           | nation | 1 (00 | nt'd)             |
|----|-------------------|--------|-------------------|-----|-------|-------------------|--------|-------|-------------------|
| No |                   | //     | Va                |     | No    | )                 |        | No    | 9                 |
| 中  | K044              |        | K045              |     | ,中    | K046 <sup>1</sup> |        |       | K047              |
| 中  | K048 <sup>2</sup> | 4      | K049 <sup>2</sup> |     | 中     | K050 <sup>2</sup> |        | P     | K051 <sup>2</sup> |
| P  | K052 <sup>2</sup> | 4      | K0601             |     | 中     | K061 <sup>1</sup> |        |       | K062              |
| P  | K069 <sup>1</sup> | 4      | K071              |     | 中     | K0831             |        | 中     | K086 <sup>3</sup> |
| 口  | K087              | Ţ.     | K099              |     | 中     | K100 <sup>1</sup> |        | Ф     | K1014             |
| P  | K102 <sup>4</sup> | F      | K103              |     | p     | K104              |        |       |                   |
| 7  |                   |        | -l                |     | - ha  | ··- haan          | coft   | hamm  | boxo              |

1 Nonwastewaters only, wastewaters have been soft hammered.
2 National Capacity Extension through May, 1990.

3 Solvent-wash subcategory, other subcategories have been soft hammered.

4 All wastewaters and nonwastewaters with less than 1% total As, high As wastewaters have been soft hammered.

#### 2. Soft Hammer Wastes (see Appendix C)

| A.M  | Jastewaters<br>) | only<br>V | )                 |   | No     |                   | Ne | )    |
|------|------------------|-----------|-------------------|---|--------|-------------------|----|------|
| 中    | F006             | 中         | K004              |   |        | K008              | P  | K021 |
|      | K022             | 中         | K025              |   |        | K036              |    | K046 |
|      | K060             | 中         | K061              |   | $\Box$ | K069              | 里  | K083 |
|      | K086             | P         | K100              |   |        | K101              |    | K102 |
| B. Z | all others       | No        |                   |   | No     | )                 | N  | 0    |
| 中    | F007             | Ф         | F008              |   | 9      | F009              |    | F019 |
| 中    | K011             | 中         | K013              |   |        | K014              |    | K017 |
| 中    | K031             | 中         | K035              | * | q      | K036              | )  | K069 |
| ф    | K073             | 中         | K083              |   | 中      | K084              |    | K085 |
| 中    | K086             | 中         | K101 <sup>1</sup> |   | 中      | K102 <sup>1</sup> |    | K106 |

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Facility Name: Ray Schuman
EPA Id Number: Moboog738/97

| 1/2 |      | Form A -/ | Restricted | Waste  | Determ | ination (co   | nt'd) |
|-----|------|-----------|------------|--|--------|---|-------|
| NO  |      | No        |            | AVC  | 2)     | 1/0   |       |
|     | P001 | П         | P004       | P  | P005   | /甲  | P010  |
| P   | P011 | П         | P012       | 甲  | P015   | 4   | P016  |
| 9   | P018 |           | P020       | Ф  | P030   |   | P036  |
| P   | P037 | 甲         | P039       | <b>中</b>   | P041   |   | P048  |
| P   | P050 | 甲         | P058       | 中  | P059   | 7   | P063  |
|     | P068 | 甲         | P069       | 中  | P070   | Image: Control of the | P071  |
| 9   | P081 | Ф         | P082       | Ф  | P084   | Ф   | P087  |
| 中   | P089 | 中         | P092       | 中  | P094   | 中   | P097  |
| 中   | P102 | 中         | P105       | 中  | P108   | Ф   | P110  |
| Ф   | P115 | 中         | P120       | Ф  | P122   | Ф   | P123  |
| Ф   | U007 | 中         | U009       | Ф  | U010   | 中   | U012  |
| 中   | U016 | Ф         | U018       | Ф  | U019   | Ψ.  | U022  |
| 中   | U029 | Ф         | U031       | Ф  | U036   | 中   | U037  |
| 中   | U041 | Ф         | U043       | The second of th | U044   | 中   | U046  |
| Ф   | U050 |           | U051       | P  | U053   | Ф   | U061  |
| 中   | U063 |           | U064       | P  | U066   | Ф   | U067  |
| 中   | U074 |           | U077       | Image: Control of the  | U078   | Ф   | U086  |
| 中   | U089 |           | U103       | 4  | U105   | Ф   | U108  |
| 中   | U115 |           | U122       | q  | U124   | Ф   | U129  |
| P   | U130 |           | U133       | P  | U134   | 中   | U137  |
| 中   | U151 |           | U154       | 中  | U155   | 中   | U157  |
| 中   | U158 | 7         | U159       | 中  | U171   | 中   | U177  |
| l   |      |           |            | ŗ  |        |   |       |

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|   | 5- N                                      |                                     | Ray Schumann   |  |  |
|---|---|-------------------------------------|--|--|--|
|   |   | EPA Id Number:                      | MOD009738147   |  |  |
| 1   |   |                                     | *  |  |  |
| /I / F  | Form A - Restricted                       | Waste Determination (               | (cont'd)   |  |  |
| No  | No  | $\Lambda(c)$ $\Lambda(c)$           | 1  |  |  |
| U180  | U185                                      | U188   L                            | U192   |  |  |
| 0180  | 0183                                      | U 0188                              | 0192   |  |  |
| TU200   | U209                                      | U210 L                              | U211   |  |  |
| U219  | U220                                      | P <sub>U221</sub> 4                 | U223   |  |  |
| U226  | U227                                      | U228 C                              | ] <sub>U237</sub>  |  |  |
| $\vdash$  | 0227                                      | $\vdash$                            | 0237   |  |  |
| ₩ U238  | ₩ U248                                    | ₩ U249                              |  |  |  |
| 1 Nonwastewa  | ters with greater                         | than 1% As.                         |  |  |  |
|   |   |                                     |  |  |  |
|   |   | ove are handled by the              | generator.   |  |  |
| Complete S  | Section VI of this                        | form.                               |  |  |  |
|   |   | sted above are handled              |  |  |  |
|   | 'orm C - Manifestin<br>ment of First Thin | g Restricted Wastes and List Wastes | nd Form F - Testing  |  |  |
| and railage   | alene of thise min                        | a msc wasces.                       | and the second s |  |  |
|   |   |                                     |  |  |  |
| Section IV. Was   | tes restricted on                         | June 8, 1989 (Second I              | hird)  |  |  |
| $\mathcal{N}_{\epsilon}$  | one present                               | - M-site                            |  |  |  |
|   |   |                                     |  |  |  |
| h /   | 1-  | ay 8, 1990 (Last Third              | 1)   |  |  |
| No  | WE present                                | on site                             |  |  |  |
| Cartier III DD3   | m masshabilita Casa                       | m - Theodonaut Chandon              | -d- TdoubiEischiou   |  |  |
| Section VI. BDAT Treatability Group - Treatment Standards Identification.                     |   |                                     |  |  |  |
| 1. Does the generator mix restricted wastes which have different treatment standards?  Yes No |   |                                     |  |  |  |
| If yes,   |   |                                     |  |  |  |
| A. Did the g<br>standard  |   | e most stringent treat              | ment<br>YesNo  |  |  |
|   |   |                                     |  |  |  |

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Facility Name: Ray Schuman
EPA Id Number: M08019738/47

#### LAND DISPOSAL RESTRICTION CHECKLIST FOR FY 1989

Form B - Treatment, Storage and Disposal

N.A.

Note: This form should be completed only if the generator or handler stores restricted wastes onsite for greater than 90 days or operates RCRA-regulated treatment or disposal units. Small quantity generators who accumulate restricted wastes for less than 180(270) days are exempt from the following requirements.

| Sec | ctio | on I. General facility standards   |             |     |      |
|-----|------|--|-------------|-----|------|
|     | ac   | s the facility's waste analysis plan been revised in<br>cordance 264.13(b)(6) or 265.13(b)(6) to reflect<br>quirements under 268.7 ? |             | Yes | _ No |
| 2.  | phy  | s the facility obtained representative chemical and<br>ysical analysis of wastes and residues in accordance<br>264.13 or 265.13 ?    |             | Yes | _ No |
|     | if   | yes,   | · · · · · · |     |      |
|     | A.   | Chemical and physical analyses of F-solvents and Dioxin  | s           |     |      |
|     |      | i. Has testing included analyses for all F-solvent<br>constituents?  |             | Yes | _ No |
|     |      | ii. Were all F-solvent constituents analyzed by<br>employing the Toxicity Characteristic Leaching<br>Procedure (TCLP) ?              |             | Yes | _ No |
|     | в.   | Chemical and physical analyses of California List waste  | S           | ž.  |      |
|     |      | i. Were the following analyses conducted on California<br>List wastes:   |             |     |      |
|     |      | a. pH ?  |             | Yes | _ No |
|     |      | b. Concentrations of PCBs ?  |             | Yes | _ No |
|     |      | c. Concentration of Halogenated Organic Compounds ?  |             | Yes | _ No |
|     |      | d. Heavy Metal concentration ?   |             | Yes | _ No |
|     |      | e. Cyanide concentration ?   |             | Yes | _ No |

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Facility Name: Ray Schumann
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### Form B - Treatment, Storage and Disposal (cont'd)

|    | c.   | Chemical and physical analyses of First Third List Wast  | es        |     |     |
|----|------|--|-----------|-----|-----|
|    |      | i. Has the facility tested wastes with established<br>treatment standards (hard hammer wastes) ?   |           | Yes | No. |
|    |      | if yes,  |           |     |     |
|    |      | a. List these wastes and the test procedures used to<br>determine concentrations below:  | )         |     |     |
|    |      |  |           |     |     |
| 3. | We:  | re these analyses conducted onsite or offsite?   |           |     |     |
|    | Α.   | If offsite, identify lab:  |           |     |     |
| 1. | Des  | scribe the frequency of sampling restricted wastes below   | <b>':</b> |     |     |
|    |      |  |           |     |     |
| At | tad  | n copy of most recent waste analysis.  |           |     |     |
| Se | ctio | on II. Storage of Restricted Wastes  |           |     |     |
| L. |      | ve restricted wastes exceeding treatment standards been ored?  |           | Yes | No  |
|    | if   | yes,   |           |     |     |
|    | A.   | Have all containers been clearly marked to identify contents and date(s) entering storage?   |           | Yes | No  |
|    | В.   | Do operating records track location, quantity, and dates that restricted wastes entered and were removed from storage?   |           | Yes | No  |
|    | c.   | Do records agree with container labeling?  |           | Yes | No  |
|    | D.   | Are restricted wastes stored for less than 1 year ?  |           | Yes | No  |
|    | E.   | Have tanks been emptied at least once per year, and<br>do operating records show that volumes of restricted<br>wastes removed from tanks at least equal tank volume? |           | Yes | No  |

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| Facility Name: | Ray Schumane    |
|----------------|-----------------|
| EPA Id Number: | MOD 00 9 738147 |

|  | F. Have restricted wastes been stored for more than one year ?   | <br>Yes _ | No         |
|--|--|-----------|------------|
|  | <ol> <li>If yes, can the owner/operator demonstrate that<br/>the purpose of such storage has been solely<br/>conducted for accumulating sufficient quantities<br/>of restricted wastes to facilitate proper recovery,</li> </ol> |           |            |
| <b>S</b> atisfaction of the satisfaction of the sati | treatment, or disposal ?   | <br>Yes _ | No         |
| Sec  | ction III. Storage or treatment in surface impoundments  |           |            |
| 1.   | Have restricted wastes exceeding treatment standards been placed in surface impoundments?  | <br>Yes _ | No         |
|  | A. If yes, have these wastes and their residues been removed at least annually ?   | <br>Yes_  | No         |
|  | B. If no, skip the remainder of this section.  |           |            |
| 2.   | Have these wastes been placed for treatment?   | <br>Yes _ | No         |
|  | A. If yes, describe treatments processes below:  |           |            |
|  |  |           |            |
| 3.   | Is the only recognizable "treatment" occurring in the impoundment either evaporation, dilution, or both ?  | Yes _     | <b>N</b> o |
| 4.   | Did the facility submit a certification of compliance with minimum technology and groundwater monitoring requirements, and the waste analysis plan to the Agency?  | Yes       | No         |
| 5.   | Have minimum technology requirements been met ?  | Yes _     | <br>No     |
|  | A. If no, have waivers been granted for each restricted waste management unit ?  | Yes _     | No         |
| 6.   | Have all 264/265 Subpart F groundwater monitoring requirements been met ?  | Yes _     | _ No       |

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| Facility Name: | Ray Schumana |
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| 7. Have representative samples of sludge and supernatant from applicable surface impoundments been tested adequately and in accordance with sampling frequency and analysis |                                       |   |    |       |      |
|---|---------------------------------------|---|----|-------|------|
|   | specified in the waste analysis plan? |   |    |       | _ No |
|   | A.                                    | Are test results maintained in the operating record?  |    | Yes _ | _ No |
|   | В.                                    | Did hazardous waste residues (i.e. sludge or liquid) exceed treatment standards as specified in 268.41? |    | Yes _ | _ No |
|   | c.                                    | Provide the frequency of analyses conducted on treatment residues below:                                | =  |       |      |
|   |                                       |   |    |       |      |
|   |                                       |   |    |       |      |
|   | D.                                    | Do operating records adequately document results of wast analyses performed in accordance with 268.41?  |    | Yes _ | _ No |
| 8.  |                                       | s supernatant been determined to exceed treatment andards ?   |    | Yes   | _ No |
|   | A.                                    | If yes, is annual throughput greater than surface impoundment volume ?                                  | -  | Yes   | _ No |
| 9.  |                                       | residues were removed annually, have adequate precaution  | ns |       |      |
|   |                                       | en taken to protect liners and do records indicate that spections of liner integrity are performed?     |    | Yes _ | _ No |
| 10.   |                                       | nen removed, were solvent wastes managed subsequently<br>n another surface impoundment?                 |    | Yes   | _ No |
| 11.   | . Wh                                  | nen removed, were wastes treated prior to disposal ?  |    | Yes _ | _ No |
|   | Α.                                    | . If yes, are waste residues treated onsite or offsite ?  |    |       |      |
|   | В.                                    | . Describe management method below:   |    |       |      |
|   |                                       |   |    |       |      |
|   |                                       |   |    |       |      |

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| Facility Name: | Ray Schumana |
|----------------|--------------|
| EPA Id Number: | MODO09738147 |

| Sec | ctio | on IV. RCRA-regulated Treatment (not including surface i  | mpoundment | S          |
|-----|------|---|------------|------------|
| 1.  |      | d the facility operate treatment facilities for stricted wastes?  | Yes _      | No         |
|     | If   | no, skip the rest of Section IV.  |            |            |
| 2.  | Des  | scribe processes for each restricted waste treated onsit  | e:         |            |
|     |      |   |            |            |
| 3.  |      | es the facility treat soft hammer wastes ?  | Yes _      | No         |
|     | If   | yes,  |            |            |
|     | A.   | Is treatment occurring as described in the facility's certification/demonstration ?   | Yes _      | No         |
|     | В.   | Did the treatment facility certify all soft hammer waste as per the facility's demonstration and maintain copies of all certifications? | Yes _      | <b>N</b> o |
|     | c.   | Did the facility send a copy of the demonstration and certification to the receiving treatment, recovery, or storage facility?          | Yes _      | <b>N</b> o |
| 4.  |      | es the treatment facility test the treatment residuals accordance with an acceptible waste analysis plan?                               | Yes _      | No         |
| 5.  | Do   | treatment residuals exceed treatment standards?   | Yes _      | No         |
|     | If   | yes,  |            |            |
|     | A.   | Describe processes used to handle those residuals ?   |            |            |
|     |      |   |            |            |
|     | в.   | Describe the frequency of testing of treatment residual below:  | s          |            |
|     |      |   |            |            |
| 6.  | Was  | s dilution used as a substitute for treatment ?   | Yes        | No         |

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| Facility Name: | Ray Schumann |  |
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| 7.  | Are certifications and results of waste analyses kept in the operating record ?  | Yes         | No |
|-----|--|-------------|----|
|     | any treatment residuals were shipped offsite for further to<br>sposal, complete Form C - Manifesting Restricted Wastes.  | reatment or |    |
| Sec | ction V. Land Disposal   |             |    |
| 1.  | Were restricted wastes placed in land disposal units (i.e. surface impoundments, waste piles, wells, land treatment units, salt domes/beds, mines/caves, concrete vaults, or bunkers) for other than treatment purposes? | Yes         | No |
| 2.  | Did the facility have appropriate notices or certifications from generators or treatment facilities in its operating record [268.7(a-b)]?  | Yes         | No |
| 3.  | Did the facility obtain waste analyses of restricted wastes to determine if such wastes were in compliance with applicable treatment standards [268.7(c)]?   | Yes         | No |
| 4.  | Were restricted wastes exceeding the applicable treatment<br>standards or prohibition levels placed in land disposal<br>units excluding national capacity variances ?  | Yes         | No |
|     | If yes,  |             |    |
|     | A. Did the facility have an approved waiver based on "no migration" petition, approved case-by-case, capacity extension, or treatment standard variance?   | Yes         | No |
| 5.  | Were restricted wastes, subject to national or case-by-<br>case capacity variances or extensions, disposed?  | Yes         | No |
|     | If yes,  |             |    |
|     | A. Were these wastes disposed of in a hazardous waste management unit that meets minimum technology requirements?  | Yes         | No |
| 6.  | Are adequate records of disposal maintained?   | Yes         | No |

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| Facility Name: |    | y Name: | Ray Schumann   |  |
|----------------|----|---------|----------------|--|
| EPA            | Id | Number: | Md D009 738147 |  |

| 7. | If wastes subject to nationwide variances, case-by-case extensions, or no migration petitions were disposed, does the facility have notices and records of disposal? | <br>Yes | _ No |
|----|--|---------|------|
| 8. | If the facility has a case-by-case extension, is there data available to verify that the facility is making progress as described in progress reports?               | Yes     | _ No |
| 9. | If the facility is disposing of a soft hammer waste, are notices or certifications maintained onsite?  | <br>Yes | _ No |
|    | If yes,  |         |      |
|    | A. Could any of these wastes be classified as California<br>List wastes ?  | <br>Yes | _ No |
|    | B. Did the facility seek to verify whether these wastes are subject to all restrictions?   | <br>Yes | _ No |

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Inspector's Initials: \_\_\_\_

Facility Name: Ray Schumare
EPA Id Number: M60009 738/47

#### LAND DISPOSAL RESTRICTION CHECKLIST FOR FY 1989

Form C - Manifesting Restricted Wastes

| Not | e: This form should be completed only if the generator or handler ships restricted waste offsite for treatment or disposal. The following requirements may also apply to treatment facilities (including incinerators) which ship residues, still bottoms, or ash offsite for additional treatment or disposal.  |    |
|-----|--|----|
| 1.  | If restricted wastes which <u>exceed</u> treatment standards, and are not subject to case-by-case extensions, "no nigration" exemption, or nationwide variance, did the generator or handler provide the following information along with each hazardous waste manifest during shipment:   |    |
|     | . Manifest document number ?   |    |
|     | 3. EPA waste identification code ?Yes No   |    |
|     | Treatment standards for each restricted waste?  **Yest No  ** need verification for recent shipment, form  **No  **Waste analysis data (if available) ? ** **No  * | es |
|     | 2. All applicable restrictions ?   |    |
| Not | ce: Restricted wastes which exceed treatment standards may only be sent for treatment (including incineration). Such wastes are prohibited from land disposal, unless there is a variance or extension applicable to the waste.  |    |
| 2.  | dentify all offsite treatment facilities accepting vastes exceeding treatment standards:  Rienco - Bendon, Apx Since 11-8-89   |    |
|     |  |    |
| 3.  | if restricted wastes do not exceed treatment standards, are subject to case-by-case extension, have a "no migration" exemption, or a nationwide variance, did the generator or handler provide the following information along with each hazardous waste manifest during shipment:   |    |
|     | . Manifest document number ? Yes No  |    |

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Facility Name: Ray Schumana
EPA Id Number: Mo Doo 9738147

### Form C - Manifesting Restricted Wastes (cont'd)

| B. EPA waste identifica   | ation code ?   | Yes No  |
|---|--|---|
| C. Treatment standards  | for each restricted waste ?  | Yes No  |
| D. Waste analysis data  | (if available) ?   | Yes No  |
| E. All applicable rest  | rictions ?   | Yes No  |
| F. Date the wastes are  | subject to restrictions ?  | Yes No  |
| G. The following certif   | fication ?   | Yes No  |
| familiar with the was<br>knowledge of the was<br>complies with the tr<br>Subpart D. I believe<br>accurate and complet | alty of law that I personally has<br>aste through analysis and testing<br>ste to support this certification<br>reatment standards specified in<br>that the information I submitture. I am aware that there are single certification, including the | g or through<br>n that the waste<br>40 CFR Part 268<br>ed is true,<br>gnificant penalties |
| Notice: The above certific representative of  | cation statement must be signed the facility.  | by an authorized  |
| 4. Identify all offsite traccepting wastes below  | reatment or disposal facilities<br>treatment standards:  |   |
|   |  | 5   |
| •   |  | 1 2   |
| solvent-water mixtures petition has the facili  | a nationwide variance (e.g.<br>less than 1%), extension or<br>ity provided notice to disposers<br>rom land disposal restrictions ?   | Mes_No.   |
|   | nandler keep records of all fications for waste sent to er August 16, 1988 ?   | Yes No Bucy   |
|   | November 8, 1985<br>for Sm. Quanty   | Generator?  |
| * A   | Fax Copy was sen   | + during inspection   |
| Page 2<br>Revision: 1/1989  | Inspector  | 's Initials:  |

| Facility, Name: | Ray Schumase   |  |
|-----------------|----------------|--|
| EPA Id Number:  | MOD 009 738147 |  |

#### LAND DISPOSAL RESTRICTION CHECKLIST FOR FY 1989

Form D - Testing and Management of F-solvents and Dioxins

| No | ote: This form should be completed only if the facility ge<br>handles F-solvents or Dioxin wastes regardless of cor                             |                |
|----|---|----------------|
| 1. | Has the facility correctly determined the appropriate treatability group [268.41] for F-solvents generated or handled onsite (see Appendix A) ? | Yes No         |
| 2. | Has the facility determined whether F-solvent wastes exceed treatment standards based on the following:   |                |
|    | A. Knowledge of process ?   | Yes No         |
|    | i. If facility employs knowledge of process, note adequacies or inadequacies in their methods below:  FROM LABORATORY DATA, Supplier DATA       | -ie MSDS, OTHE |
|    |   |                |
|    | B. Toxicity Characteristic Leaching Process (TCLP) ?  | Yes No         |
|    | i. If yes, provide the following information:   |                |
|    | a. Last test date:  |                |
|    | b. Frequency of testing:  |                |
|    | c. Indicate any problems with testing procedure be  | elow:          |
|    |   |                |
|    | ii. Attach test results to report.  |                |
|    | iii. Were wastes tested using TCLP when processes or<br>wastestreams changed ?  | Yes No         |
|    | <pre>iv. Was testing done prior to dilution or<br/>solidification ?</pre>   | Yes No         |
|    | C. Other (specify):   |                |
| 3. | Did F-solvent wastes exceed their applicable treatment  | Ves No         |

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Facility Name: Ray Schumana
EPA Id Number: M00009738147

# Form D - Testing and Management of F-solvents and Dioxins (cont'd)

|    | Did the facility dilute the waste or treatment residuals as a substitute for adequate treatment [268.3]?  Were treatment residuals generated from 264/265   |
|----|---|
| 5. | Were treatment residuals generated from 264/265  RCRA-exempt units or processes?  Yes No  |
|    | If yes,   |
|    | A. List the type(s) of treatment and unit(s) below:   |
|    |   |
|    | Note: If the residuals from a RCRA-exempt treatment unit are above the treatment standards, the owner/operator is considered a generator of restricted waste. The inspector should determine whether the generator requirements, particularly waste identification requirements, have been met for the treatment residuals. |
| 6. | Have F-solvents or dioxin wastes been stored for greater than 90 days ?  Yes No   |
|    | If yes,   |
|    | A. Is facility operating under interim status or final permit? Yes No   |
|    | the answer was yes for either 6 or 6A, complete Form B - Treatment, orage and Disposal.   |

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Inspector's Initials:

Scel